Revision ID: Item Name: Cros	2-664-107TRN stube Turning De 06/2012 Start		*1*	Accept	*N900		100)* s	etup Star Sto	I A	S1* S2*
Required Date: 04/0	07/2012 Req'	d Qty: 1.00	*1*	-	Customer:						
Reference:						<u>.</u>		D	tun Stai	et J.B.E.	
	ocess Plan:		Date:	Tooling: SPC (Y/N):	- '	ate:		N	Sto	" \]	R1* R2*
Sequence ID/ Work Center ID	Oper Descr	ation iption	· ——— ———	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision N	br		······································			7 50		- 4 5 10000 20000		
D212-664-147	Rev B(DE))	,								
*100 *100*	MORI	SEIKI CNC LATHE I	ARGE	0.00		=	÷		K		
Mori Seiki Mori Seiki CNC Lathe Lan	rge			0.00 T8534 on both ends as p	er Folio FA705				(٠	900 (12/06)
		3-Blend transition FOLIO REV: DWG REV: *Use mill bastard	as per Folio FA113 n lines only, **do not 1 file, brush file repeal 1 paper coarser than 32	tedly with file card.							12/06/
110	QC1-1	nspect dimensions to c	limension sheet	0.00				Ţ	erk.		
110 QC Quality Control		Memo		0.00					9_	· · · · · · · · · · · · · · · · · · ·	ann d
					* *						4/06/

W/O:			WO	RK ORDER CHANC	GES				
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
			٠.						
Part No	:	PAR #:	Fault Categ	ory:	NCR: Ye	s No	DQA:	Date: _	
	Res	solution:	Disposition	: '	QA: N/C	Closed:		Date: _	<u> </u>
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NO	CR)			
DATE	STEP	Description of NC			ction B	Ve	rification	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da		Section C	Chief Eng	QC Inspector
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June-20-12 7:59:42 AM

Revision ID:	D212-664-1			Accept	*N900	040	100)*	Setup Star	1/1	S1*
Item Name: Start Date: Required Date Reference:	Crosstube Tu 20/06/2012 e: 04/07/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item Customer:				Stop	' *N	S2*
Approvals:	Process Pla	an:	Date:			eate:_		F	Run Star Stop	" \	R1* R2*
Sequence ID/ Work Center 120 *120* Mori Seiki Mori Seiki CNC L		2-Blend tra *Use mill *Do not us FOLIO RE DWG REV	ond side as per Folio FA' ansition lines only, **do pastard file, brush file repe sandpaper coarser than	not sand whole tube**: seatedly with file card.	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* QC Quality Control		QC1- Inspect dimension	ns to dimension sheet	0.00					Ø		gyan,

manil 12/06/22

	Johano								
W/O:			WC	ORK ORDER CHANGI	ES	·			
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate			No DQ	A:	_ Date: _	
	Re	esolution:	Dispositio	n: :	QA: N/C Cld	sed:		Date:	
NCR:		W	ORK ORD	ER NON-CONFORMA	NCE (NCR)			
		Description of NC		Corrective Action Section	on B	Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti	on C	Chief Eng	QC Inspector
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8							<u>.</u>		
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Page 3

June-20-12 7:59:42 AM

Item ID:

D212-664-107TRN

Crosstube Turning Detail

Accept

N900040100

Setup Start

Item Name: Start Date:

Revision ID:

20/06/2012

Start Qty: 1.00 Reg'd Qty: 1.00

Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Required Date: 04/07/2012

Process Plan:

Date: Tooling:

SPC (Y/N):

Date: Date:

Run

Sequence ID/ Work Center ID Operation Description

QC8- Inspect parts - second check

Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

140

140

Quality Control

Memo

0.00

0.00

145

145 Crosstubes

Crosstubes

0.00

0.00

Memo

GRIND ONLY TRANSITION LINES SMOOTH LONGITUDE WAY.

12-7-3

150

Crosstubes Chemical Conversion

0.00

150

HandFXtube

Memo

0.00

Hand Finishing Crosstubes

1-Pressure Wash 1- Acid Etch

									_
W/O:			M	ORK ORDER CHANG	ES				
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Ca	tegory:	NCR: Yes	No DQ	A:	_ Date: _	
	R	esolution:	Disposit	lon: '	_ QA: N/C C	losed:		Date: _	
NCR:			WORK OR	DER NON-CONFORMA	NCE (NCI	R)			
DATE	CTED	Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sect	ion C	Chief Eng	QC Inspector
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Page 4

June-20-12 7:59:42 AM

Required Date: 04/07/2012

Item ID:

D212-664-107TRN

Crosstube Turning Detail

Accept

N900040100

Setup Start

Item Name: **Start Date:**

Revision ID:

20/06/2012 Start Qty: 1.00

Req'd Qty: 1.00

1

Date:

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

QC:

Date:

Tooling:

SPC (Y/N):

Date: Date:

Tool #

Run Start

Stop

Sequence ID/ Work Center ID

160

160

Quality Control

Operation **Description**

Set Up/ **Run Hours**

0.00

0.00

Plan

Accept Code Qty

Qty

Reject Reject Number Stamp

Insp.

170

170

Packaging Packaging

Packaging

Memo

Identify and stock in kanban rack

Location:

0.00

0.00

180

QC21- Final Inspection - Work Order Release

0.00

120

Quality Control

Memo

0.00

W112-07-4

W/O:			W	ORK ORDER CHANGE	ES				
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:	Fault Cat	tegory:	NCR: Yes	No DQ	A:	Date:	
	R	esolution:	Dispositi	ion: <u>'</u>	QA: N/C C	losed:		Date: _	
NCR:		V	WORK ORDER NON-CONFORMANO						
DATE	STEP	Description of NC	Rose I	Corrective Action Section		Verific		Approval	Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		on C	Chief Eng	QC Inspector
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Picklist Print

June-20-12 7:59:47 AM

Work Order ID: 86053

Parent Item:

D212-664-107TRN

Parent Item Name: Crosstube Turning Detail

86053 *D212-664-107TRN*

Start Date: 20/06/2012

Required Date: 04/07/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:A New Issue 08-03-06 DD Verified by:ec

IPP Rev B Removed polish 08.04.02 EC verified: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6019-128		Manufactured	No	· · · · · · · · · · · · · · · · · · ·		110	Each	45.0000	1	1			
D6010_13)Q								**				

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Crosstube Material

Location	Loc Qty	Loc Code
LG	45	
69803	21	
75635	24	

man.6 D/S

W/O: WORK ORDER CHANGES										
DATE	STEP	18 4	PROCEDURE CH				Date	Qty	Approval Chief Eng / Prod Mgr	Approval
						Same	,			
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Part No: _		PAR #:	Fault Category:	 NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	_ Date:

NCR:	R: WORK ORDER NON-CONFORMANCE (NO						<u></u> .			
		Description of NC		Corrective Action Section B		Verification	Annecial	Annuoval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto		
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DART AEROSPACE LTD	Work Order:	86057
Description: Crosstube Assembly (205/212/412 Low Fwd)	Part Number:	D212-664-147
Inspection Dwg: D212-664-147 Rev: B		Page 1 of 2

FIRST ARTICLE INSPECTION CHECKLIST

Inspection Sheet Drawing Dimension		Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments	
	0.313	+/-0.010	.513			vern	CN L-08	
	2.360	+0.005/-0.000	2.800			1		
ſ	2.360	+0.005/-0.000	2-361					
	2.366	+0.005/-0.000	2-366					
	2.473	+0.005/-0.000	2.475	/				
	2.573	+0.005/-0.000	2-573	/				
Ш	2.673	+0.005/-0.000	7 677					
SIDE	2.750	+0.005/-0.000	2.750					
0,	2.750	+0.005/-0.000	2,750			1		
_	0.313	+/-0.010	313			vern	CVC-046	
	2.360	+0.005/-0.000	2.363				00.000	
Γ	2.360	+0.005/-0.000	2-364					
	2.366	+0.005/-0.000	2.369					
	2.473	+0.005/-0.000	2.4 77				1	
[2.573	+0.005/-0.000	7.573	~]				
E B	2.673	+0.005/-0.000	2673			1.		
SIDE	2.750	+0.005/-0.000	2.750					
_	2.750	+0.005/-0.000	7.70					
-								
-			,					
							* 2	
	0.126.528	+/-0.020	126.528			TGPC	16-25	

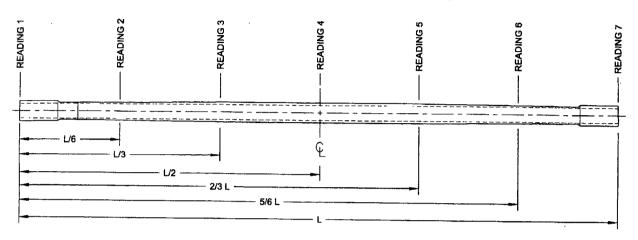
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W/O:		WORK ORDER CHANGES									
DATE	STEP	PRO	OCEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
		,									
		PAR #:	Fault Ca	tegory:	NCR: Yes	No DQ	A:	Date:	<u> </u>		
					QA: N/C Closed: Date:						
NCR:		1	WORK OR	DER NON-CONFORMA	ANCE (NCF	l)					
DATE S	STEP	Description of NC		Corrective Action Section B			erification	Approval	Approval		
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DART AEROSPACE LTD	Work Order:	9,6053
Description: Crosstube Assembly (205/212/412 Low Fwd)	Part Number:	D212-664-147
Inspection Dwg: D212-664-147 Rev: B		Page 2 of 2

WALL THICKNESS MEASUREMENT



	WALL	THICKNESS	MEASUREMEN	NT (IN)	Deviation	T
Location	w1	w2	w3	w4	Δw (max-min)	TOLERANCE
READING 1 L= 0"	, 100	.128	.137	.142	-036	
READING 2	.109	.138	.145	.123	-036	
READING 3	,206	. 235	-257	.214	.051	Acceptable
READING 4	.315	.328	.328	.316	.013	0.048"
READING 5	.213	,727	.227	.215	,014	
READING 6	.122	.130	-129	124	.008	
READING 7 L= ()	.115	.127	.127	12)	.012	

Calibration Re	s	ult
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Actual Block Thickness:

1. 1. 194 2

				Sites	can 250 Measured Thickness:	
Measured by:	91991.U	Audited by:	1 1		Prototype Approval:	N/A
Date:	12/06/22	Date:	12-0	0-260	Date:	N/A
Rev Date	Change				Boulead by A	

Rev	Date	Change	Revised by Approved
Α	08.11.07	New Issue (P/O D212-664-107)	KJ/EC
В	10.02.02	Dimension 126.528 was 126.53	KJ 10 11
С		Wall thickness form added	KJ DA M
L			77

	•											
W/O:		WORK ORDER CHANGES										
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
								:				
							Ì					
Part No:		PAR #:	Fault Cate	egory:	_ NCR: Yes	No DQ	A:	Date: _				
				Disposition: QA: N/C Closed: Da								
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NCR	3)		1. 5. 1.				
DATE	STED	Description of NC		ion B	Verifi	cation		Approval				
	JILF	STEP Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sect	ion C	Chief Eng	QC Inspector			

Item	Qty -147	Qty -147B	Part Number	Description
1	X		D212-664-147	CROSSTUBE ASSEMBLY (205/212/412 LOW FWD)
2		X	D212-664-147B	CROSSTUBE ASSEMBLY (214 LOW FWD)
3	1	1	D6019-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
5	4	4	D3595-063-450	RUBBER CUSHION
6	2	2	D3659-1	CUFF
7	4	4	MS21920-25	CLAMP (OR MS21920-26)
8	44	44	CR3212-4-06	RIVET (OR M7885/3-4-06)
9	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC 299-947-100, TYPE II, CLASS 2 ADHESIVE)
10	AVR	A/R	SIKAFLEX-241/-291	SEALANT (OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT)

GENERAL NOTES:

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В

- MATERIAL. MANUFACTURED FROM D8019-128
 FINISHED LENGTH = 126 528-0 020 (BEFORE BENDING/TRIMMING)
 FINISH CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- PRIME INSIDE AND OUTSIDE PER DART QSI 005 4 2
- PAINT OUTSIDE PER DART QSI 005 4.2 TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS INCHES UNLESS OTHERWISE NOTED
- BREAK SHARP EDGES. 0.005 TO 0.010 MAX IDENTIFICATION SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS
- WEIGHT: D212-664-147 = 24 2 bs (PER IIN-D212-664) D212-664-147B = 24 2 bs (PER IIN-D212-664) PART IS SYMMETRIC ABOUT CENTERLINE
- WHEN MACHINING TAPER, RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D., EXCEPT UP TO 10% IS ALLOWED IN AREA NOTED
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038
- 12) INSTALL D2893-1 SUPPORT USING 0 03" TO 0 06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1
- SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.

 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS.

 DEFECTS UP TO 0 005" MAY BE BLENDED OUT LONGITUDINALLY CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.
- 16) INSTALL D3659-1 CUFF AFTER CHEMICAL CONVERSION COAT BUT BEFORE PAINT, WITH A LAYER OF SIKAFLEX-241/-291 OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT BETWEEN CUFF AND CROSSTUBE. SEAL EDGE OF CUFF TO ENSURE NO GAPS.
- 17) TOUCH-UP HOLES WITH CHEMICAL CONVERSION COAT

SHOP COPY RETURNTO UNCONTROLLED COPY STRIJECT TO AMENDMENT SHIP WORK ORDER 12/06/20

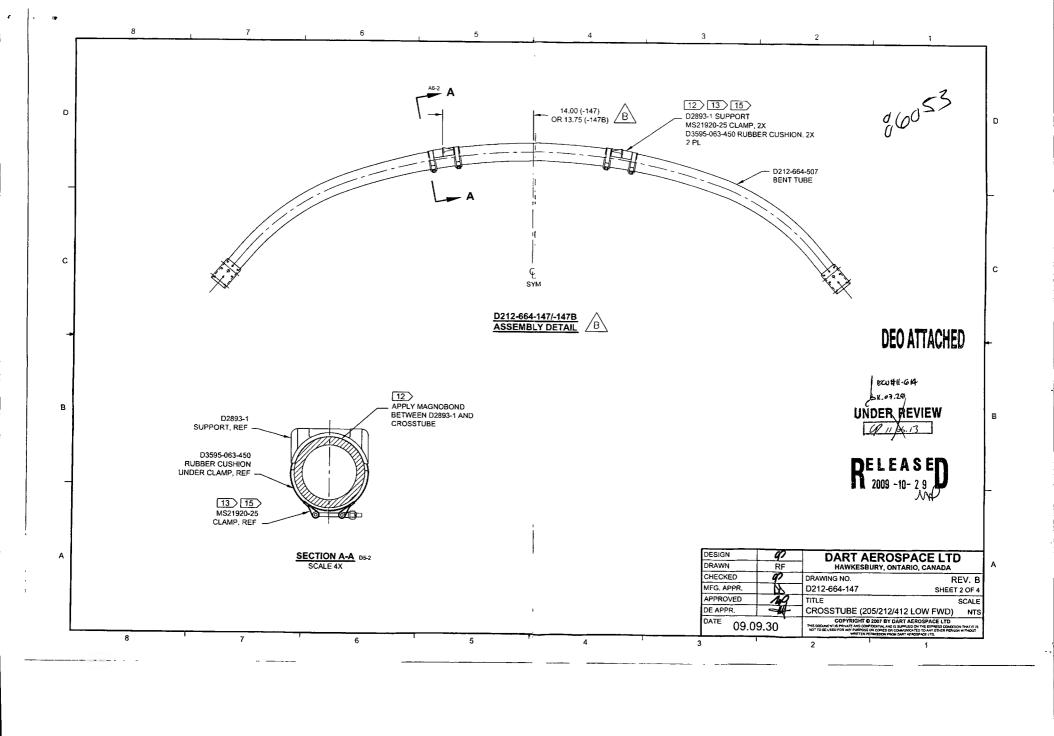
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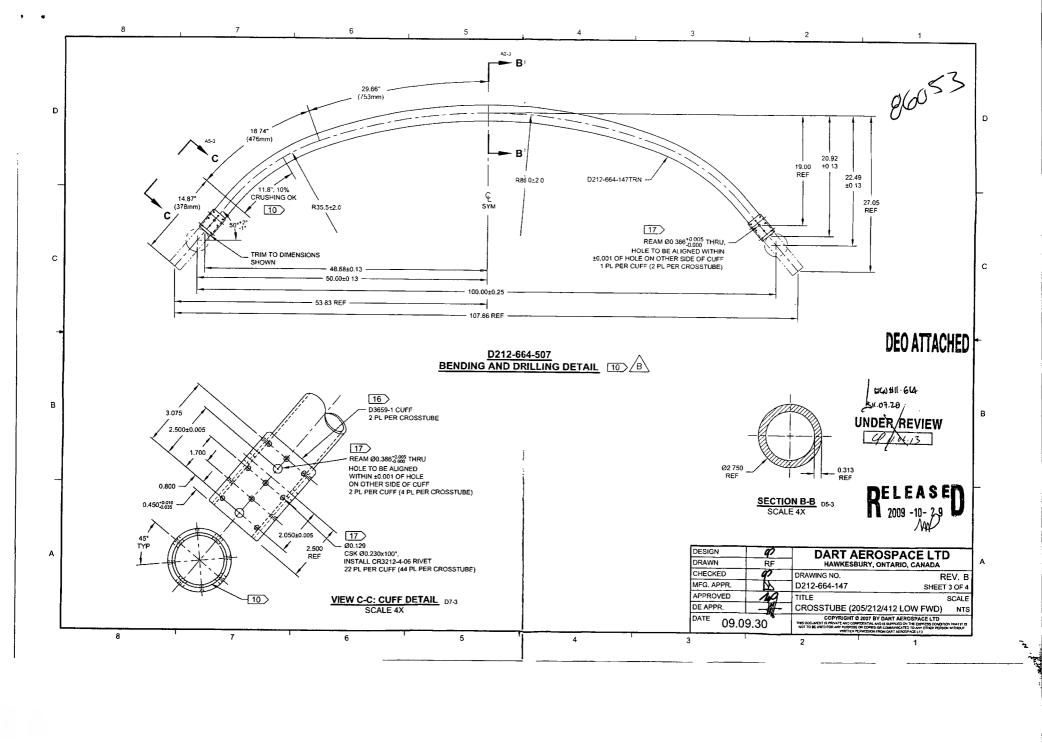
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В			NOTES/PART LIST; UPDATE TO RDS: ADD -147B (ZN C4-2, D4-2)	RF	09.09.30			
Α	NEW IS	SSUE	CP	07.07.07				
REV.			DESCRIPTION	BY	DATE			
DESIGN		q)	DART AEROSPACE LT					
DRAWN RF			HAWKESBURY, ONTARIO, CANADA					
CHECK	D	P	DRAWING NO.	REV. B				
MFG, AF	PR.	77	D212-664-147	S	HEET 1 OF 4			
APPRO\	/ED	140	TITLE	_	SCALE			
DE APPI	DE APPR. CROSSTUBE (205/212/412 LOW FWD)			VD) NTS				
09.09.30			COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONTROL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO 65 USED FOR ANY PURPOSES OF COMMUNICATION FOR ANY PURPOSE STORMED OR COMMUNICATION FOR ANY PURPOSE STORMED ANY CONTROL FOR ANY PURPOSE STORMED ANY CONTROL FOR ANY PURPOSE STORMED ANY CONTROL FOR ANY PURPOSE					

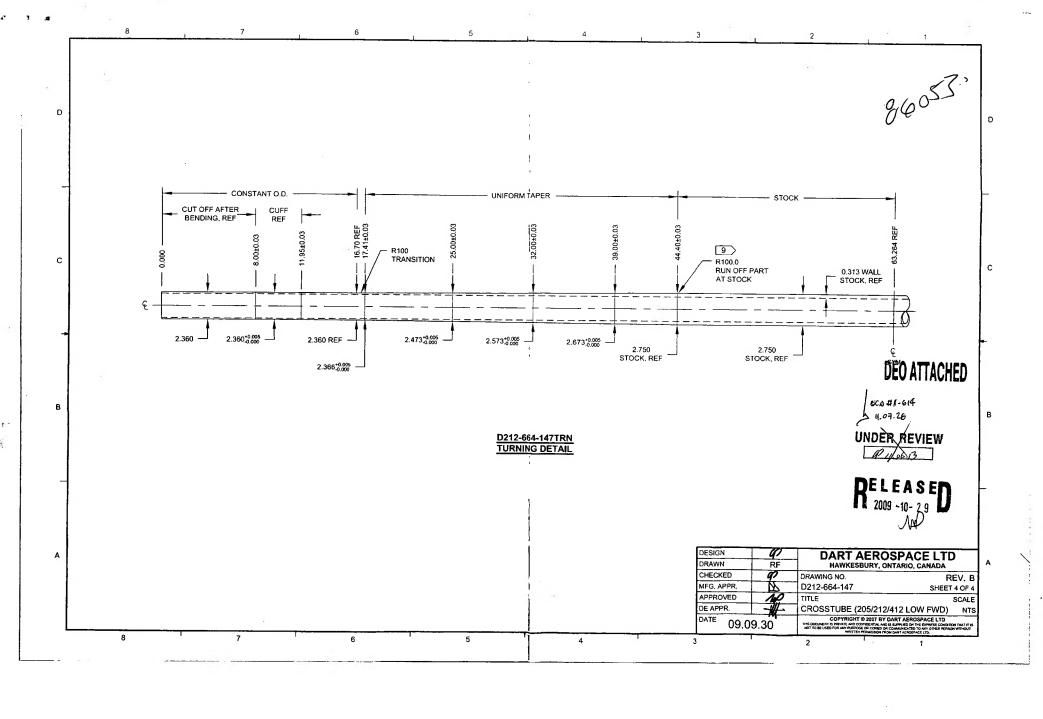
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W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No	:	PAR #:	Fault Cate	egory:	NCR: Yes	No DQ	A:	Date:				
Resolution:			Disposition	on: '	QA: N/C C	losed:	 	Date:				
NCR:		\	WORK ORD	ER NON-CONFORM	ANCE (NCI	₹)						
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Description Chief Eng	ion B Sign Date	Sect.	cation on C	Approval Chief Eng	Approval QC Inspector			
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N/O:			WO	RK ORDER CHANGE	S				
DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Categ	ory:	NCR: Yes	No DQ	A:	Date:	
			Disposition: QA: N/C Closed: [
NCR:			WORK ORDE	R NON-CONFORMAL	NCE (NCR)			
DATE	STEP	Description of NC Section A	Corrective Action Section Initial Action Description		Sign &		cation	Approval Chief Eng	Approval QC Inspector
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W/O:			WO	RK ORDER CHANG	ES					 	
DATE	STEP	PROCEDURE CHANGE			Ву	(Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No	:	PAR #:	Fault Category: NCR: Yes No DQA: _						Date:		
Resolution: Disposition: QA: N/C Ck		Clos	osed: Date:								
NCR:			WORK ORDE	R NON-CONFORM	ANCE (N	CR)					
DATE	STEP	Description of NC		tion B	Sign & Verifica			n Approval	Approval		
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W/O:			W	ORK ORDER CHANG	GES				
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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		solution:							
NCR:			WORK OR	DER NON-CONFORM	ANCE (NC	3)			
DATE	STEP	Description of NC		ction B	Verif	ication	Approval	Approval	
DAIL	JILI	Section A	Initial Action Description Chief Eng Chief Eng		Sign of Date		tion C	Chief Eng	QC Inspector
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DRAWING NO.	TITLE	REV. B	DART AEROSPACE LTI	D.E.O. NO.	SHEET NO.	SCALE
D212-664-147	CROSSTUBE ASS'Y (205 LOW FWD)	ENGINEERING ORDER	D212-664-147-B-1	SHEET 1 OF 1	NTS
DRAWN 97	CHECKED	ASS	MFG. APPR.	APPROVED (1)	DE APPR.	
DATE 11.07	.15 DATE	11.07.20	DATE 11:07-21	DATE 1/07/21	DATE 11.07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

86053

CHANGE:

IS:

item	Qty -147	Qty -147B	Part Number	Description
9	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

			I	
9	A/R	A/R		ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
			.:	TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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